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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/830,187	06/25/2001	Monte Bruce Wilson	Q63960	2958	
75	590 07/23/2002				
Sughrue Mion Zinn Macpeak & Seas			EXAMINER		
2100 Pennsylva Washington, Do	nnia Avenue N W C 20037-3213		HARDEE,	EE, JOHN R	
			ART UNIT	PAPER NUMBER	
			1751		
			DATE MAILED: 07/23/2002	\mathcal{D}	

Please find below and/or attached an Office communication concerning this application or proceeding.

		MITA			
	Application No.	Applicant(s)			
Office Action Summary	09/830,187	WILSON, MONTE BRUCE			
Office Action Summary	Examiner	Art Unit			
The MAN (NO DATE of this communication of	John R Hardee	1751			
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the c	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statut. - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). - Status	136(a). In no event, however, may a reply be timely within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	nety filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
1) Responsive to communication(s) filed on	·				
2a) ☐ This action is FINAL . 2b) ☑ T	his action is non-final.				
3) Since this application is in condition for allow closed in accordance with the practice unde					
Disposition of Claims					
4) Claim(s) 1-12 is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)X Claim(s) <u>1-7,11 and 12</u> is/are rejected.					
7) Claim(s) <u>8-10</u> is/are objected to.					
8) Claim(s) are subject to restriction and/ Application Papers	or election requirement.				
9) The specification is objected to by the Examin	er				
10) The drawing(s) filed on is/are: a) acce		miner			
Applicant may not request that any objection to the					
11) The proposed drawing correction filed on					
If approved, corrected drawings are required in reply to this Office action.					
12) The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C. § 119(a)-(d) or (f).			
a) ☐ All b) ☐ Some * c) ☐ None of:					
1. Certified copies of the priority documer	its have been received.				
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the pricapplication from the International B	ureau (PCT Rule 17.2(a)).				
* See the attached detailed Office action for a lis	•				
14) Acknowledgment is made of a claim for domes					
 a) ☐ The translation of the foreign language point 15)☐ Acknowledgment is made of a claim for domes 					
Attachment(s)	_				
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)			
S. Patent and Trademark Office					

Page 2

Application/Control Number: 09/830,187

Art Unit: 1751

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-7, 11 and 12 are rejected under 35 U.S.C. 102(b) as being anticipated by Henry, US 5,421,192. The reference discloses compositions comprising naphthalimide fluorescent dyes, refrigeration lubricants and lubricant inhibitors which are incorporated into a refrigeration system (col. 2, lines 10+). Suitable lubricants include hydrocarbons, including natural and refined mineral oils, synthetic hydrocarbons, alkylbenzenes, polyalphaolefins, etc. In most cases, the dye should be solubilized by an appropriate solvent. Dye is present in a concentration of at least 0.001 g of dye per 100 g of refrigeration working fluid. Suitable refrigerants, including some of those recited by applicant, are disclosed at the top of col. 3. Claims 11 and 12 are drawn to intended use. As the compositions are anticipated, these claims are as well. The compositions are disclosed as circulating through the refrigeration system, implying mutual solubility.
- 3. Claims 1-7, 11 and 12 are rejected under 35 U.S.C. 102(b) as being anticipated by Parekh, US 4,758,366. See claim 1, which recites a composition consisting of a polyhalogenated hydrocarbon refrigerant, a refrigeration oil and a fluorescent dye in a

Art Unit: 1751

solvent. A suitable naphthalimide dye is disclosed at col. 3, lines 47+. Many of the recited refrigerants and oils read on those recited by applicant. Dye is present in a concentration of at least 0.001 g of dye per 100 g of refrigeration working fluid (col. 3, lines 20+). Claims 11 and 12 are drawn to intended use. As the compositions are anticipated, these claims are as well. The compositions are disclosed as circulating through the refrigeration system, implying mutual solubility.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - Ascertaining the differences between the prior art and the claims at issue.
 - Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 6. Claims 1-7, 11 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over either Parekh or Henry, as summarized above. The claims are obvious because they are anticipated.

Application/Control Number: 09/830,187

Art Unit: 1751

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Claims 1-7, 11 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over WO 98/54150. The reference discloses naphthalimide dyes which can preferably be used in refrigerated lubricants (p. 6, lines 16+) based on mineral oils or other hydrocarbons. Preferably, the refrigerant lubricants are miscible in all proportions with R-134a (p. 6, lines 20+). The dye compound is used at about 0.01% to 0.008% (p. 7, lines 17+). Where necessary, the dye may be dissolved in a carrier solvent (p. 5, lines 13+). This reference differs from the claimed subject matter in that it does not disclose a composition which reads on applicant's claims with sufficient specificity to constitute anticipation.

It would have been obvious at the time the invention was made to make such a composition, because this reference teaches that all of the ingredients recited by applicants are suitable for inclusion in a leak detection composition which is subsequently added to a refrigerant. The person of ordinary skill in the surfactant art would expect the recited compositions to have properties similar to those compositions which are exemplified, absent a showing to the contrary.

In the case where the claimed ranges overlap or lie inside ranges disclosed by the prior art, a *prima facie* case of obviousness exists. *In re Wertheim,* 541 F.2d 257, 191 USPQ 90 (CCPA 1976); *In re Woodruff,* 919 F.2d 1575, 16 USPQ2d 1934 (Fed Cir. 1990).

Application/Control Number: 09/830,187 Page 5

Art Unit: 1751

Allowable Subject Matter

7. Claims 8-10 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

- 8. The following is a statement of reasons for the indication of allowable subject matter: The closest prior art of record is the references summarized above. While all of the references motivate the addition of a solvent, none of the references discloses, from a universe of possible solvents, that a mixture of a fatty acid ethoxylate and an alcohol ethoxylate would be a suitable solvent.
- 9. The prior art made of record and not relied upon is of interest and is considered pertinent to applicant's disclosure.
- 10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to the examiner, Dr. John R. Hardee, whose telephone number is (703) 305-5599. The examiner can normally be reached on Monday through Friday from 8:00 until 4:30. In the event that the examiner is not available, his supervisor, Dr. Yogendra Gupta, may be reached at (703) 308-4708.

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Application/Control Number: 09/830,187 Page 6

Art Unit: 1751

11. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0661.

John R. Hardee Primary Examiner July 17, 2002